

**Interagency Hydrology Committee of Alaska (IHCA)
Final Meeting Minutes (approved October 16, 2002)
Kenai, Alaska
April 10-11, 2002**

Officers Fall 2001- Fall 2002

Chair – Larry Rundquist, National Weather Service
Vice Chair- Joe Klein, Alaska Department of Fish and Game
Secretary- John Trawicki, U.S. Fish and Wildlife Service

Mailing Address:
c/o Larry Rundquist
6930 Sand Lake Road, Anchorage, AK 99502-1845
Phone 907-266-5152, Fax 907-266-5182, larry.rundquist@noaa.gov

April 10, 2002

OPEN MEETING 1:00 PM

**AGENCY REPRESENTATIVE IDENTIFICATION – Attendees and Introductions
Sign-in/Address List distributed - (* = Voting Representative):**

Melanie Apgar-USGS
*Jeff Hock-AK DEC
*Joe Klein-AK F&G
*Rick McClure-USDA/NRCS
*Mark Miles-AK DOT
*Christy Miller-AK DCED
*Gary Prokosch-Ak DNR
*Ann Puffer-USDA-Forest Service

*Larry Rundquist-US NWS
*John Trawicki-US FWS
*Jon Zufelt-US CRREL

Guests

Joel Cooper- Cook Inlet Keeper
Sue Mauger- Cook Inlet Keeper

Review & Approval of Spring 2001 Minutes - Unanimous approval to accept minutes as presented.

OLD BUSINESS and IHCA - Project Updates

No external communications.

Letter to Governor Knowles- (Jeff Hock) recommending FERC require stream gauging prior to licensing a project. Letter was sent to the Governor on Feb.2, 2000. Jeff Hock spoke with George Ascott. According to Ascott the letter has been passed along and is in line with legislation that is being introduced. Did not want to respond until relationship of legislation and letter were reviewed. Gary Prokosch stated that DNR (Lauffler) or the commissioner needs to write a letter explaining the benefits of this and why the Governor

should support it. Up coming meeting between the commissioner and Sisk would be appropriate time to present letter of support from DNR and a request the governors' support. Prokosch will pursue this and report next meeting.

Interagency Flood Data Sheets- (Larry Rundquist) Interagency Flood Data forms have been developed and a copy distributed. The group had several recommendations. Safety needs to be highlighted. Ice events need to be added. Cause of event should be added. Other agencies should add link from their web pages to this form. Agencies need to get the forms to their field stations/personnel. Online address to print or submit form needs to be added to the form (<http://aprfc.arh.noaa.gov/forms/formmenu.html>). A timely and periodic reminder should be sent to those most likely to witness flood events.

Membership Subcommittee- (Fall 2001) A discussion was held about membership of state, federal and local agencies as voting members with NGOs and others as attendees without voting rights. It was determined the bylaws need to be reviewed to determine/define local agency. Recommendation #3 was discussed in detail at the meeting and edits are shown.

Subcommittee Report:

The membership subcommittee has reviewed the bylaws and the purpose of the IHCA and recommends the following:

1. Member agencies should include any Federal, State, Tribal, borough, and local governments that **coordinate the collection and interpretation of data related to water resources and climate throughout the State of Alaska.**
2. Non-governmental organizations (NGO's) can not be voting members of IHCA, but are invited to attend IHCA meetings as guests.
3. To maintain consistency in the decisions made by the IHCA, for eligible member agencies to attain and retain voting privileges [for the current meeting, the member agency must have attended 1 of the previous 3 semi-annual IHCA meetings.] ~~the agency must have been represented at two or more of the previous four IHCA semi-annual meetings.~~
[or must be present at 2 of the last 4 meetings to maintain voting privileges or the agency can attain voting privilege on there second meeting if the first was in the previous 4 meetings]
4. Sign-up lists at IHCA meetings should contain separate sections for members and for guests to assist the secretary in his/her task of maintaining the member list.
5. The IHCA bylaws should be modified to incorporate the previous recommendations and to update other sections.

6. The eligible member agencies that can attain or retain voting privilege is as follows:

Local, Borough, and Tribal Governments that are actively involved with the collection of water resources and/or climatological data

State of Alaska Agencies

Department of Community and Economic Development, Division of Community & Business Development

Department of Environmental Conservation

Department of Fish and Game

Department of Military and Veterans Affairs [Division of Emergency Services]

Department of Natural Resources

Department of Transportation & Public Facilities

Division of Governmental Coordination

University of Alaska [UAA, UAF]

Federal Agencies

U.S. Army Corps of Engineers [CRREL and Alaska District]

U.S.D.A. Forest Service

U.S.D.A. Natural Resources Conservation Service

U.S. Department of Commerce National Weather Service

U.S. D.O.C. National Marine Fisheries Service

U.S.D.I. Bureau of Indian Affairs

U.S.D.I. Bureau of Land Management

U.S.D.I. Fish and Wildlife Service

U.S.D.I. Geological Survey

U.S.D.I. National Park Service

U.S. Environmental Protection Agency

Other By-Laws discussed at meeting:

-Caribou-Poker Flats review by IHCA no longer valid and should be deleted. Discussion will be held at next meeting in Fairbanks w/ UAF representation present.

Copies of the changes proposed by the sub-committee are attached. Additional changes discussed at the meeting are shown above.

Members should review proposed changes to the bylaws prior to the Fall 2002 meeting. Proposed bylaws will be reviewed at the Fall 2002 meeting.

State Flood Study Production (Christy Miller) handout.

-Presidents budget for FY2003 requests \$300 million for flood plain mapping.

-FEMA is being charged under the Government Performance and Results Act to accomplish specific goals; Reduce average age of flood maps; Produce digital mapping products; Study unmapped communities; Utilize state of art technology; Utilize state and local cost sharing.

- There is a potential that FEMA will transfer some of the flood study production to the states.
- Alaska may do ok on the priority ranking because of the number of smaller rural or unmapped communities that FEMA is intent on focusing on.
- Christy was asking state agencies to meet to: 1. Write plan for state and FEMA. 2. Sign technical agreement among state agencies to be submitted to FEMA by end of April 2002. 3. Discuss options of contracting with private contractors or federal agencies (Corp or USGS) to produce maps.
- Will report status at Fall 2002 meeting.

Groundwater Data Collection Standards (Mark Miles) A subcommittee was formed to discuss standards and consistency protocols for groundwater data collection. Subcommittee will report at Fall 2002 meeting.

On-going Projects/Committee Reports

Proposed Federal Legislation (Trawicki)

- S252, HR668. Amend Federal Water Pollution Control Act: authorizes revolving funds for FY2002 thru FY2006 and simplifies procedures for states and extends repayment periods for financially stressed communities.
- S503, HR1178. Amend Safe Drinking Water Act: to provide grants to small public water systems.
- S1593, HR3178. Authorize EPA to establish a grant program to support research projects on critical infrastructure protection for water supply systems.
- HR2908. Provide additional protection for National Forest Lands in Alaska.
- S509. Establish the Kenai Mountains-Turnagain Arm National Heritage Corridor.

State Legislation (Prokosch)

- HB185. allows for fees for certain uses of water, accounting and appropriations of those fees, authorization of temporary water use permits and providing an effective date for amendments to the Alaska Water Use Act. Fees to mimic HB361.
- HB420. Repeals sunset date relating to provisions to the use of water.
- HB266. An Act establishing and relating to a joint Federal and State Navigable Waters Commission for Alaska.
- HB421. An Act requiring DNR to develop and maintain a standard procedure for processing applications and issuing permits; and make information available over the internet.
- SB140. Commission shall adopt regulations to establish a regulatory program for waterpower development projects of 5,000 kilowatts or less.
- SB356. Authority for DEC to issue general and individual permits for waste disposal.

AWRA Activities (Melanie Apgar)

Bill Rice was elected as president. New web site manager. Check it out at <http://www.awra.org/state/alaska/index.html>. Membership, Scholarship, short course and annual conference information is available on site.

Membership Database (Trawicki)

-It was discussed and decided that there should be two separate databases. The first database will contain member agency personnel with a primary agency contact identified. General emailings will be from this database. The second database will be for nonmembers. The nonmember database will not be part of the general email list. Will update for the Fall 2002 meeting.

Status of IHCA Website (Trawicki)

At the present time there is no one at USGS that is tasked with making updates to the web page. With the reorganization within the USGS and Gordon Nelsons retirement a web page manager has not been identified. This will need to be arranged with the new primary USGS contact at the Fall 2002 meeting. Once the USGS web page manager has been identified, IHCA secretary needs to provide the web manager with update information.

Caribou Poker Creeks Research Watershed (Davis, handout) Needed trail improvements were completed this past summer. Radios were added to 3 meteorological stations allowing remote access. A workshop was held to identify critical research gaps in arctic hydrology. Top issues identified were: sparse and declining observational network, lack of understanding of the basic hydrologic processes operating across the pan-Arctic, and absence of cross disciplinary synthesis Report available at <http://www.arcus.org/ARCS/hydro/index.html>.

NSF has accepted and initiated a program in Arctic Hydrology. The program will focus in the physical, chemical and biogeochemical processes of the freshwater Arctic systems and its connections with the subpolar oceans and Arctic environmental Change.

TP-47 (Larry Rundquist) At the present time there is no money for Alaska, but the potential is there. www.nws.noaa.gov/oh/hdsc/current-projects/projects.html

Federal Agency Reports

U.S. Forest Service (Anne Puffer)

- Staffing: Will be hiring a regional hydrologist and 2 more hydrologist. Have hired 1 new hydrologist for the Chugach NF and 2 for the Tongass NF.
- Budget for soil and water will remain level for FY2003 with declines in the following years.
- Five watershed assessments are complete on the Tongass NF and two are complete on the Chugach NF. The Tongass Monitoring plan is on going. Trying to establish a land management effects monitoring program. This program is being limited by dollars.
- Ecosystem management is integrating aquatic and terrestrial resources to look at and evaluate landscape projects.
- LTFs are developing remediation plans.
- Abandoned roads w/culverts are creating fish passage issues.

Bureau of Land Management(handout)

- Activities for the past and next 6 months: Unalakeet and Anvik River gauging, Instreamflow quantification in the Steese area, preparation of Fortymile instreamflow report, hydrography processing, Bering Glacier assessment.
- Next years plans include: Unalakeet and Anvik River gauging, Streamflow monitoring on the Hogatza River and ion the Tozitna Area of Critical Environmental Concern, Nome Creek reclamation and study, White Mountain water Resources, Alaska watershed assessment, Harrison Creek restoration and study, North slope gauging for planning studies in the NPRA.
- Operations budget was cut for FY2003.
- Trying to fill three hydrologist positions (state office, Anchorage field office, Northern field office).

National Weather Service (Larry Rundquist) Operations:

- There were no significant hydrologic events this winter
- NWS has 62 observer stream gauge sites and two automated stream gauge sites
- We will be installing some new rain gauges this summer
- NWS has developed a standard web site format nationwide
- We have done additional calibration of our hydrologic models
- We have formalized our site identifiers and done software enhancements

U.S. Geological Survey (handout)

FY2003 Proposed Budget

USGS Water Resources Division is slated for a significant cut in the FY03 budget that the President submitted to Congress. Cuts to the National Water Quality Assessment Program and Toxics Hydrology Program will not affect Alaska. Budget cuts in prior years already eliminated those programs in Alaska. Two new gauges added to the network in FY02, however, will be cut under the President's budget, as will our work on Noyes Slough in Fairbanks

Stream Gauging Program

Thanks to an expansion of the national Streamflow Information Program (NSIP), we were able to add two new Federal stations to the network, Colville River and Nuyakuk River. We're optimistic that Congress will maintain these stations, although the President's budget eliminates them. For FY02, we have 111 continuous-record stations, 70 of which are transmitting real-time data. We also operate 52 crest-stage gauges and 4 stage-only gauges. The loss of five gauges is the result of the termination of the Cook Inlet NAWQA study.

Natural Resource Conservation Service (Rick McClure)

-WATERSHED PROJECTS

Delta Clearwater River Watershed Project
Dillingham Emergency Watershed Protection
Rika's Roadhouse
City of Seward

City of Soldotna

-WATERSHED PLANNING ACTIVITIES

Nightmute Floodplain Study

Harding Lake

Shishmareff

Klukwan

-SNOW SURVEY ACTIVITIES

Three new SNOTEL sites are scheduled to be installed this coming field season

New Snow Courses scheduled to be installed - 9

U.S. Fish and Wildlife Service (John Trawicki)

-Currently operating 40 stream gauging stations on 5 National Wildlife Refuges in Alaska.

-Starting collection baseline water quality (basic nutrients) at some of the gauging stations.

-Filed for instream flow reservations on 18 lakes in the Yukon Flats NWR and the Uganik River on Kodiak NWR.

Corps of Engineers (handout)

-Funding 17 stream gauges in FY02

-Snow surveys done on Ship Creek and Chena River basins.

-Other Projects: Kake dam out to bid, Gold Creek restoration out to bid, Chester Creek salmon access in design phase, Restoration continues on Duck Creek, Mark Creek, Mendenhall River and Klawock. Erosion studies continue in Kenai, Matanuska, Skagway, Galena, McGrath, Bethal, and Dillingham.

U.S Army Cold Regions Research and Engineering Laboratory (Jon Zufelt)

-Alaska Engineering Design Information System has a new web page

<http://ml.crrel.usace.army.mil/akatlas>.

-working in conjunction with AKDOT on meteorology and climatologic tools (temp., precip., and wind)

-Eagle River Flats phosphorus cleanup continues.

-Identification of groundwater contamination continues at Fort Wainwright, Fort Richardson and Fort Greely.

-CRREL continues to work with HEC to improve HEC models. HEC-RAS now has steady and unsteady flow components, ice jams. GeoRAS to map flood plain areas. And is working on SNOW (snowpack and ablation).

-Future work: Ship Creek sedimentation budget, and ice effects on bioengineering.

Alaska State Agency Reports

Alaska Department of Fish and Game (Joe Klein)

-Chip Dennerlein has replaced Ken Taylor as our Director for the Division of Habitat & Restoration.

-Budget is still unclear and what future funding will be authorized.

-ADF&G and DNR are working on an MOA to address the backlog of ADF&G instream flow reservations. Once a draft agreement has been reached, it should be available for public review along with a facilitated discussion for stakeholders.

-Approximately 30 hydroelectric projects are under review or being monitored. Insufficient baseline hydrologic data for Alaska continues to hamper efforts of developers to estimate project economics, design fish passage facilities, assess ramping rate requirements, and establish instream flow requirements for some of the proposed hydroprojects.

-Chugach Electric has notified FERC that it intends to seek license renewal of the Cooper Lake project and held public meetings on March 19 and 20, in Anchorage and Cooper Landing, respectively. Chugach will follow FERC's traditional licensing process, but with enhanced communication and participation during consultation and preparation of the license application. This means that FERC will be responsible for preparing the NEPA document. Efforts planned for 2002 include consultation with agencies, public groups, and individuals that have an interest in the project; and completing studies requested by the agencies. Not later than 60 days after the March 19/20 meetings, resource agencies and Indian tribes must provide the applicant with written study requests.

Alaska Department of Natural Resources (Gary Prokosch)

Handout, Alaska Hydrologic Survey projects list.

-Legislation: *HB 420*- removes sunset provision authorizing temporary water use under HB 185

HB421- establishes procedure for processing permits and put water rights information on the Internet.

SB 140- legislation to obtain jurisdiction of licensing of small hydroelectric power projects in Alaska.

HB 185- establishes a fee system and authority to issue temporary water use permits.

Budget: Status quo, except in FY03, \$84,000 in general funds is switched to program receipts and can be used only if we collect the funds through fees. In FY 04 an additional \$100,000 is switched to program receipts.

Regulations: Regulations that were public noticed last August are being reviewed to determine if they will be unchanged, adopted, or amended to take into account public comments. New fee regulations should be out for public review in the next 90 days.

Staffing: all new positions, but a Natural Resources Officer II, have been filled. The NRO II should be on Workplace Alaska in the next 30 days.

Projects: highlighted some on the projects in the handout. Instream flow work on Glacier Creek, Girdwood and Salmon River, Hyder. Numerous hydroelectric projects in Southeast and Southcentral Alaska. Glacier Creek gauging under 319 funding ends on June 30, 2002. DNR will likely continue the gauge for another year.

Dam Safety: DNR is currently working on applications to construct or modify dams in Kake, Gunnuk Creek; Anchorage, Chester Creek; Eagle River, Fire Lake; and Kodiak, Monaska Creek.

Alaska Department of Transportation (Mark Miles)

-Completed field portion of culvert assessment, office analysis pending.

- Culvert and Pooled Fish behavior study in coop w/ Washington, Oregon.
- Stream Gauging Program in COOP w/USGS: 50 crest gauges, 15 hydrograph stations.
- On going research includes; flood flow frequency to update Fahl report (in cooperation w/ USGS), roughness verification program focusing on steep streams.
- Bridge scour investigations continue at 6 locations, w/ 6 more to be added to study.
- Channel roughness for steep Ak streams received funding.
- Sediment control guidelines have been approved and are available on the web.
- Ice forces on riprap study w/UAF.
- Evaluation of bioengineer streambank protection in AK.
- Buried culvert studies: Inlet loss and bed material stability.
- Recent Studies: Resurrection Creek, Clear Creek, Bear Creek, Victor Creek, ptarmigan Creek, Falls Creek, Hutliana Creek, Caribou Creek, Lowe River, Abercrombie Creek, Wood river, Buckland River, Willow Creek, Marion Creek, Moose Creek, Nenana River.

Alaska Department of Environmental Conservation (Jeff Hock)

- 319 Program: State agencies and private groups are competing for the same dollars. This is creating competition and conflict between agencies and groups with similar agendas.
- 305b- EPA water quality assessment from DEC goes to Congress. 303d Impaired water list is included in this assessment.
- FY2003 Alaska Clean Waters Action, Nonpoint Source Grants: NPS issued requests for proposals that focus on ACWA and NPS priorities. DEC anticipates \$8-900K will be available from these funds.

Alaska Department of Community and Economic Affairs (Christy Miller)

DCED, Division of Community & Business Development

Floodplain Management Program Report to IHCA Meeting 4/10-11/02

Community Profile Mapping -Middle Kuskokwim & Yukon River Community Profile Maps for 11 communities are near completion. Looking for agencies, others organizations interested in partnering on other community mapping projects.

Floodplain Management Web site - <http://www.dced.state.ak.us/cbd/nfip/nfip.htm>

National Flood Insurance Program (NFIP) - Koyukuk and Kwethluk have entered the NFIP.

Flood Mitigation Assistance Program -Fairbanks North Star Borough developing a strategy for addressing the ground water damage to structures below the Chena Flood Control Project and to Borough flood mitigation plan. Draft Plan has been completed. Nome Flood Mitigation Plan development under way.

Erosion Control Projects and Multi-Agency Coordination - Corps Benefit Cost & lack of State Policy on Erosion. DCBD participating with an agency work group and Native Village of Unalakleet to see how more Alaska projects can be approved, or what is needed to help coordinate with multitude of erosion requests. Recommended formation of an interagency Task Force on Erosion to provide an ongoing working group where erosion problems are critical.

Environmental and Natural Resources Institute: Water Quality Projects (handout)

- Biological Monitoring Program has completed 5 years of monitoring in the Cook Inlet Basin. This program uses macroinvertebrate communities to determine biological integrity. Information will be added to the Alaska Stream Condition Index and will be used as an indicator of ecosystem health. <http://uaa.alaska.edu/enri/bmap/index.html> .
- In cooperation with ADNR ENRI is evaluating the use of biological assessment for monitoring best management practice effectiveness of forest road stream crossings.
- The tiered methods have been revised to allow citizens, tribes and teachers to collect biological information to assess water quality and trends.
- ENRI has helped lead water quality and aquatic monitoring workshops.
- ENRI received funding through UAA to conduct a needs assessment related to watershed information.

Guest Report: Cook Inlet Keeper (Joel Cooper and Sue Maguer)

-The Cook Inlet Keeper uses primarily a volunteer program to collect water quality information for Cook Inlet Basins. The Keeper is interested in working cooperatively with agencies and other on the Kenai Peninsula. The Keeper wanted to know if there was a common data storage site that all agencies used to store and find information. CIMS and STORET are the most likely locations to find information. USGS for most stream gauging information. There was a question on whether STORET could be used for stream gauging/ weather/climate information as well as water quality information. And would STORET be the best location as a common database. Or at least be used as a reference to the data that is available.

New Business

Elections: The following people were nominated and elected to the offices listed.

Chair-Joe Klein, Alaska Department of Fish and Game

Vice Chair- John Trawicki, U.S. Fish and Wildlife Service

Secretary- Jon Zufelt-U.S. Army Cold Regions Research and Engineering Laboratory

NEXT IHCA Meeting - Fall 2002 –

Where: Fairbanks, AK (place to be determined)

When: To be determined – Prokosch will check on dates and times

Start Time: To be determined

INTERAGENCY HYDROLOGY COMMITTEE FOR ALASKA

~~1997 IHCA BY LAWS~~ IHCA BYLAWS

Amended April 11, 2002

The **Interagency Hydrology Committee for Alaska** (IHCA) is an organization of technical specialists working ~~at the~~ for Federal, State, Tribal, borough, and local ~~levels~~ governments, who coordinate the collection and ~~implementation~~ interpretation of data related to water resources and climate ~~related data~~ throughout the State of Alaska. The IHCA meets twice per year to coordinate multi-agency issues and exchange of information.

ARTICLE I Name

The name of this organization is:

Interagency Hydrology Committee for Alaska (IHCA).

ARTICLE II Goal and Objectives

Section 1. The goal of the IHCA is:

to coordinate the efforts of government agencies (~~Federal, State, and Local~~) and ~~the private sector~~ in programming for and collecting water resources and climatologic data that are responsive to the needs of the public and private sectors.

Section 2. The objectives of the IHCA are:

- to coordinate data needs and recommend priorities for data collection systems throughout the state,
- to achieve maximum economics through this coordination of data collection efforts,
- to provide a common forum in which to meet, discuss, and exchange ideas and information related to water resources and climate, and
- to provide technical support to ~~local, State, and Federal~~ government agencies on water resources and climatologic issues and concerns.

ARTICLE III Location

The IHCA address is designated by the elected Chair at the fall meeting.

ARTICLE IV Membership and Voting

Section 1. All government agencies (~~Federal, State, Tribal, and Local~~) that are involved with the collection ~~and/or use~~ of water resources and climatologic data are eligible to be member agencies of the IHCA and are encouraged to actively participate in the IHCA.

Section 2. Each member ~~State~~ agency is granted one vote; ~~each bureau or service of a Federal department is granted one vote; the U.S. Environmental Protection Agency is granted one vote; each local government is granted one vote.~~ Each of these member agencies will designate its voting representative at the beginning of each meeting.

Section 3. In order for eligible member agencies to attain and retain voting privileges, the agency must have been represented at two or more of the previous four IHCA semi-annual meetings. ~~The A~~ list of participating ~~government~~ member agencies will be ~~updated~~ prepared following ~~at the end of~~ each meeting by the Secretary.

Section 4. All workings of the IHCA are open to ~~all parties including private sector personnel and agency support and technical staffs~~ the public, but only those persons who are designated as voting representatives will have voting privileges.

ARTICLE V Officers and Duties

Section 1. Election of officers shall be held at the spring meeting. Officers of the IHCA are Chair, Vice Chair, and Secretary. The Vice Chair will be the Chair-elect. All officers will serve for a period of one-year commencing with the opening of the fall meeting.

Section 2. The Chair will preside at meetings and appoint subcommittee members, and represent the IHCA as appropriate. The Chair will complete an annual written report at the conclusion of his or her term to be presented by the Fall meeting.

Section 3. The Vice Chair (Chair-elect) will perform the duties of the Chair in his or her absence and will arrange for the meetings of the IHCA.

Section 4. The Secretary will keep the minutes of the IHCA meetings and update the list of participating ~~government~~ member agencies ~~and membership~~. At the end of each year, the Secretary will ensure that all minutes, reports, and correspondences are filed in the official IHCA files.

Section 5. The Chair may appoint a member or members of the IHCA to assist the executive subcommittee to achieve the goals and objectives of the IHCA.

ARTICLE VI Meetings

The IHCA shall meet at least twice each year, once in the spring and once in the fall. Other meetings may be called by the Executive Subcommittee as necessary.

At all regular meetings of the IHCA, each agency representative will present a report of their water resources activities and plans.

Following each meeting, the short written agency reports will be available. Minutes of the meetings will be distributed to all meeting attendees before the next meeting.

ARTICLE VII Subcommittees

Section 1. The IHCA may establish standing Subcommittees as needed.

Section 2. There are currently two ~~standing~~ subcommittees.

a. Executive Subcommittee is composed of the Chair, Vice Chair, Secretary, and Past Chair and meets between regular meetings to discuss the business of IHCA.

b. Caribou-Poker Creek Research Watershed (CPCRW) Subcommittee is composed of three people appointed by the IHCA Chair and announced at the annual fall meeting. At least one appointee must be an employee of the University of Alaska Fairbanks (UAF) and be actively involved in research activities in CPCRW. At least one appointee must be an employee of an IHCA member agency other than UAF. The Subcommittee will meet as needed to review and comment on activities and plans for CPCRW.

ARTICLE VIII Amendment

These By-Laws may be amended by a two-thirds vote of the voting members present at any IHCA meeting.